70:7037150877 031-208-7399 T0:7116050434 T0:7037150877 PAGE:04 T0:71169501319702508514 PAGE:01

VOLENTINE FRANCOS, P.L.L.C. (9/2001)

below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below or name; that I varily believe that I am the original, first and sole inventor (if only one name is listed below) or an or and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a pate into the invention entitled:  TITLE: SYNCHRONOUS SEMICONDUCTOR MEMORY DEVICE HAVING (In the invention entitled)  TITLE: SYNCHRONOUS SEMICONDUCTOR MEMORY DEVICE HAVING (In the invention entitled)  THE TERMINATION CIRCUIT AND ON-DIE TERMINATION METH thick is described and claimed in:    the attached specification, or   filed   file			FOR U.S. PATE			
rame; that I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an orange into an the inventor (if pural Inventors are named below) of the subject matter which is claimed and for which a patent on the invention entitled:  TITLE: SYNCHRONOUS SEMICONDUCTOR MEMORY DEVICE HAVING OF DIE TERMINATION CIRCUIT AND ON-DIE TERMINATION METH which is described and olaimed in:    Synchronous Semiconductor   Synchronous Semination   Siled   Synchronous Semination   Synchro	C	☑ Original	Supplemental	Substitute	PCT	Design
DIE TERMINATION CIRCUIT AND ON-DIE TERMINATION METH  tich is described and claimed in:    the specification in the application Serial No	name; that I varily believed in the second of the second o	e that I am t I inventors a	he original, first and	l sole inventor (if	only one n	ame is listed below) or an origi
the specification in the application Serial No						
the specification in the application Serial No. (if applicable), or the specification in International Application No. (if applicable), or and as amended on (if applicable).  the specification in International Application No. (if applicable).  the specification of the specification of the specification of the above-identified specification, including the claims and the specification of the specification of this application of the specification application of the specific application of the subject matter of each of the claims of this application is not disclosed in the prior United States applies insofer as the subject matter of each of the claims of this application is not disclosed in the prior United States applies insofer as the subject matter of each of the claims of this application is not disclosed in the prior United States applies insofer as the subject matter of each of the claims of this application is not disclosed in the prior United States applies insofer as the subject matter of each of the claims of this application:  **Polication**  **Pol	tich is described and clain	ned in:				
the specification in International Application No. (If applicable).  chy state that I have reviewed and understand the content of the above-identified specification, including the claims and as amended on (If applicable).  chy state that I have reviewed and understand the content of the above-identified specification, including the claims and the same amendment(s) referred to above.  chowledge my duty to disclose information of which I am aware which is material to the examination of this applications, with Title 37, Code of Federal Regulations, §1.56(a).  chy claim foreign priority benefits under Title 35, United State Code, §119 (and §172 if this application is for a Deforeign application(s) for patent or inventor's certificate listed below and have also identified below any foreign apparent or inventor's certificate having a filing date before that of the application in which priority is claimed:  COUNTRY APPLICATION NO. DATE OF FILING PRIORITY CLAIMI Republic of Korea 2003-0000215 January 3, 2003 Yes  reby claim the benefit under Title 35, United States code, §120 and §119(c) of any United States application(s) list insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States applies manner provided by the first paragraph of Title 35, United States Code, §112, 1 acknowledge the duty to disclose matter in Title 37, Code of Federal Regulations, §1.36(a) which occurred between the filing date of the ication and the national or PCT international filing date of this application:  APPLICATION SERIAL NO. U.S. FILING DATE STATUS: PATENTED, PENDIN	Inc attached specif	ication, or				
chy state that I have reviewed and understand the content of the above-identified specification, including the claim anded by any amendment(s) referred to above.  Inowledge my duty to disclose information of which I am aware which is material to the examination of this application with Title 37, Code of Federal Regulations, §1.56(a).  The property claim foreign priority benefits under Title 35, United State Code, §119 (and §172 if this application is for a Deforeign application(s) for patent or inventor's certificate listed below and have also identified below any foreign apparent or inventor's certificate having a filing date before that of the application in which priority is claimed:  COUNTRY APPLICATION NO. DATE OF FILING PRIORITY CLAIMI Republic of Korea 2003-0000215 January 3, 2003 Yes  The property of the benefit under Title 35, United States code, §120 and §119(c) of any United States application(s) list insofer as the subject matter of each of the claims of this application is not disclosed in the prior United States applies manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose matter of the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose matter of the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose matter of the first paragraph of Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the lication and the national or PCT international filing date of this application:  APPLICATION SERIAL NO.  O.S. FILING DATE  STATUS: PATENTED, PENDIN	the specification in and with amo	n the applica endments the	tion Serial No	filed_ (if ap	plicable), u	<del>r</del> ,
chy state that I have reviewed and understand the content of the above-identified specification, including the claim anded by any amendment(s) referred to above.  Inowledge my duty to disclose information of which I am aware which is material to the examination of this application with Title 37, Code of Federal Regulations, §1.56(a).  The property claim foreign priority benefits under Title 35, United State Code, §119 (and §172 if this application is for a Deforeign application(s) for patent or inventor's certificate listed below and have also identified below any foreign apparent or inventor's certificate having a filing date before that of the application in which priority is claimed:  COUNTRY APPLICATION NO. DATE OF FILING PRIORITY CLAIMI Republic of Korea 2003-0000215 January 3, 2003 Yes  The property of the benefit under Title 35, United States code, §120 and §119(c) of any United States application(s) list insofer as the subject matter of each of the claims of this application is not disclosed in the prior United States applies manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose matter of the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose matter of the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose matter of the first paragraph of Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the lication and the national or PCT international filing date of this application:  APPLICATION SERIAL NO.  O.S. FILING DATE  STATUS: PATENTED, PENDIN	the specification in	n Internation ded on	ial Application No.	(if applicable).	file	od,
Republic of Korea 2003-0000215 January 3, 2003 Yes  reby claim the benefit under Title 35, United States code, §120 and §119(e) of any United States application(s) list insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States applie manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose rmation as defined in Title 37, Code of Federal Regulations, §1.36(a) which occurred between the filing date of the lication and the national or PCT International filing date of this application:  APPLICATION SERIAL NO. U.S. FILING DATE STATUS: PATENTED, PENDIN	mowledge my duty to disc rdance with Title 37, Code	lose Information	ation of which I am a Regulations, §1.56(a	n).		ne examination of this applicati
reby claim the benefit under Title 35, United States code, §120 and §119(e) of any United States application(s) list insofer as the subject matter of each of the claims of this application is not disclosed in the prior United States applie manner provided by the first paragraph of Title 35, United States Code, §112, 1 acknowledge the duty to disclose rmation as defined in Title 37, Code of Federal Regulations, §1.36(a) which occurred between the filing date of the ication and the national or PCT international filing date of this application:  APPLICATION SERIAL NO.  U.S. FILING DATE  STATUS: PATENTED, PENDIN	nowledge my duty to disc rdance with Title 37, Code eby claim foreign priority foreign application(s) for	close informate of Federal benefits una	ation of which I am a Regulations, §1.56(a der Title 35, United s entor's certificate lis	n). State Code, §119 sted below and hi	(and §172 ave also ide	he examination of this applicati if this application is for a Desi entified below any foreign appl
insofer as the subject matter of each of the claims of this application is not disclosed in the prior United States applie manner provided by the first paragraph of Title 35, United States Code, § 112, 1 acknowledge the duty to disclose rmation as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the lication and the national or PCT international filing date of this application:  APPLICATION SERIAL NO.  U.S. FILING DATE  STATUS: PATENTED, PENDIN	mowledge my duty to disc rdance with Title 37, Code beby claim foreign priority foreign application(s) for patent or inventor's certific	close information of Federal benefits undopatent or invested having a	ation of which I am a Regulations, §1.56(a der Title 35, United tentor's certificate lis a filing date before the	n). State Code, §119 sted below and hi nat of the applica	(and §172 ave also ide tion in whic	he examination of this applicati if this application is for a Desi entified below any foreign appl
insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States applie manner provided by the first paragraph of Title 35, United States Code, § 112, 1 acknowledge the duty to disclose rmation as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the lication and the national or PCT international filing date of this application:  APPLICATION SERIAL NO.  U.S. FILING DATE  STATUS: PATENTED, PENDIN	cnowledge my duty to disc rdance with Title 37, Code reby claim foreign priority foreign application(s) for patent or inventor's certific	close information of Federal benefits undopatent or invested having a	ation of which I am a Regulations, §1.56(a der Title 35, United tentor's certificate lis a filing date before the	n). State Code, §119 sted below and he hat of the applica	(and §172 ave also ide tion in which	if this application of this application is for a Designatified below any foreign application is priority is claimed:
insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States applie manner provided by the first paragraph of Title 35, United States Code, § 112, 1 acknowledge the duty to disclose rmation as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the lication and the national or PCT international filing date of this application:  APPLICATION SERIAL NO.  U.S. FILING DATE  STATUS: PATENTED, PENDIN	cnowledge my duty to disc rdance with Title 37, Code reby claim foreign priority foreign application(s) for patent or inventor's certific	close information of Federal benefits undopatent or invested having a	ation of which I am a Regulations, §1.56(a der Title 35, United tentor's certificate lis a filing date before the	n). State Code, §119 sted below and he hat of the applica	(and §172 ave also ide tion in which	if this application of this application is for a Designatified below any foreign application is priority is claimed:
	cnowledge my duty to discondance with Title 37, Code reby claim foreign priority foreign application(s) for patent or inventor's certification.	close information of Federal benefits undopatent or invested having a	ation of which I am a Regulations, §1.56(a der Title 35, United tentor's certificate lis a filing date before the	n). State Code, §119 sted below and he hat of the applica	(and §172 ave also ide tion in which	if this application of this application is for a Designatified below any foreign application is priority is claimed:
	reby claim the benefit und insofar as the subject manner provided by the manner provided by the rmation and the national of instant of the subject manner provided by the rmation and the national of the residual of the national of the nati	benefits une patent or investe having a APPLI 200  er Title 35, ter of each of first paragra a 37, Code of PCT Intern	der Title 35, United sentor's certificate list filing date before the ICATION NO.  3-0000215  United States code, softhe claims of this apply of Title 35, United States at the code at the code at the claims of this apply of Title 35, United States at the code at the cod	State Code, §119 sted below and heat of the applica  DATE OF  January 3  \$120 and §119(eapplication is not ed States Code, §1.56(a) which is application:	(and §172 ave also ide tion in which FILING 3, 2003	if this application is for a Designtified below any foreign application for priority is claimed:  PRIORITY CLAIMED Yes  inted States application(s) listed in the prior United States application with the prior United States application will between the filing date of the prior the prior date of the prior the prior date of the prior the prior date of the
1	reby claim foreign priority foreign application(s) for patent or inventor's certific COUNTRY  Republic of Korea  reby claim the benefit und, insofar as the subject maine manner provided by the irmation as defined in Title lication and the national or	benefits une patent or investe having a APPLI 200  er Title 35, ter of each of first paragra a 37, Code of PCT Intern	der Title 35, United sentor's certificate list filing date before the ICATION NO.  3-0000215  United States code, softhe claims of this apply of Title 35, United States at the code at the code at the claims of this apply of Title 35, United States at the code at the cod	State Code, §119 sted below and heat of the applica  DATE OF  January 3  \$120 and §119(eapplication is not ed States Code, §1.56(a) which is application:	(and §172 ave also ide tion in which FILING 3, 2003	if this application is for a Designatified below any foreign application priority is claimed:  PRIORITY CLAIMED Yes  inted States application(s) listed in the prior United States application between the filing date of the public priority in the priority is claimed:

/RESDAYAHABUB/QGPRY

## VOLENTINE FRANCOS, P.L.L.C. (9/2001)

And I hereby appoint Adam C. Volentine, Reg. No. 33289 and William S. Francos. Reg. No. 38,456, and the firm of *VOLENTINE FRANÇOS, P.L.L.C.*, jointly and severally, attorneys to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith.

I hereby authorize the U.S. afforneys named herein to accept and following instructions from K.N.K. INTERNATIONAL PATENT & LAW FIRM, as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and myself. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by me.

Kindly direct all correspondence to:

VOLENTINE FRANCOS, P.L.L.C. 12200 Sunrise Valley Drivo, Suite 150 Reston, VA 20191

> Telephone (703) 715-0870 Facsimile (703) 715-0877

FULL NAME OF I	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME				
INVENTOR	LEE	Dong-Jin					
RESIDENCE & CITIZENSHIP	City	STATE OR COUNTRY	COUNTRY OF CITIZENSHIP				
	SEOUL	REPUBLIC OF KOREA	Republic of Korea				
	ADDRESS	City	STATE OF COUNTRY ZIP CODE				
POST OFFICE ADDRESS	103-276, SILLIM2-DONG, KWANAK-GU, SCOUL, REPUBLIC OF KOREA 151-012						
FULL NAME OF 2"	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME				
	KYUNG	KYE-HYUN					
RESIDENCE & CITIZENSHIP	Спу	STATE OR COUNTRY	COUNTRY OF CITIZENSHIP				
	Yongin-City	REPUBLIC OF KOREA	REPUBLIC OF KOREA				
Post Oppice Aughess	ADDRESS JINSANMAUL SAMSUNG S <sup>TI</sup> AT KYOUNGGI-DCI, REPUBLIC OF	City PT., 512-1301, 1161, Bojeong-ri Korea 442-764	STATE OR COUNTRY ZIP CODE, GUSUNG-MYEUN, YONGIN-CITY,				
FULL NAME OF 3*** INVENTOR	FAMILY NAME	FIRST CIVEN NAME	SECOND GIVEN NAME				
	Y00	Chang-sik					
RESIDENCE & CITIZENSHIP	CITY	STATE ON COUNTRY	COUNTRY OF CITIZENSHIP				
	SEOUL	REPUBLIC OF KOREA	REPUBLIC OF KOREA				
	ADDRESS	CITY	STATE OR COUNTRY ZIP CODE				
Post Office Address	\$AMSUNG APT., 303-803, 150 133-091	0, KUMHODONG 1-GA, SUNGDON	G-GU, SEOUL, REPUBLIC OF KOREA				

Full name of 4th Inventor	Family Name	FIRST GIVEN NAME	SECOND GIVEN NAME	
Residence & Citizenship	СПУ	STATE OR COUNTRY	COUNTRY OF CITIZENSHIP	
Post Office Address	ADDREAS	Спү	STATE OR COUNTRY ZIP COU	
PULL NAME OF 5 <sup>TO</sup> INVENTOR	FAMILY NAME	First Given Name	Recond Given Name	
RESIDENCE & CITIZENSHIP	СИТУ	STATE OR COUNTRY	COUNTRY OF CHIZENSHIP	
Post Office Address	ADDRESS	CITY	STATE OR COUNTRY ZIP CODE	
FULL NAME OF 6 <sup>TH</sup> INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME	
Residence & Chizenship	City	STATE OR COUNTRY	COUNTRY OF CITIZENSHIP	
POST OFFICE ADDRESS	AUDRESS	CITY	STATE OR COUNTRY ZIP CODE	
the like so made are punthat such willful false sulf" Inventor Dong-  2nd Inventor West	ishable by fine or imprisonment atements may jeopardize the value of the legal of t	tements were made with the known, or both, under Section 1001 of idity of the application or any pa  Date:  Date:	2003/12/15	
3 <sup>rd</sup> InventorChang	-SIKROU P	Date; Date;		
st favores				
6th Inventor				